

**PRODUCT NAME(S): UV Resin Clear**

**SECTION 1 – IDENTIFICATION**

**Manufacturer's Info:**  
**Rhino Linings Corporation**  
 9747 Businesspark Avenue  
 San Diego, CA 92131

**Product name:** UV Resin Clear

**Information phone:** (858) 450 0441  
**Emergency contact:** CHEMTREC (800) 424 9300

**SECTION 2 – HAZARD(S) IDENTIFICATION**

**OSHA Hazard Communication Standard:**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**GHS-Label Elements:** **Signal Word:**  
 WARNING

**Pictogram(s):**



GHS 02



GHS 08



GHS 07

**Classification of the substance or mixture:**

Hazard Class	Category	Hazard Statement Codes	Hazard Statements
Acute Toxicity, Oral	5	H303	May be harmful if swallowed
Acute Toxicity, Inhalation	5	H333	May be harmful if inhaled
Skin corrosion / irritation	2	H315	Causes skin irritation.
Serious eye damage / Eye irritation	2A	H319	Causes serious eye irritation.
Reproductive Toxicity	2	H361	Suspected of damaging fertility or the unborn child
Specific target organ toxicity, single exposure	3	H335 H336	May cause respiratory irritation May cause drowsiness and dizziness
Specific target organ toxicity, repeated exposure	2	H373	May cause damage to central nervous system/brain, liver, kidney, blood, respiratory system/lungs and skin through prolonged or repeated exposure by inhalation, skin absorption and ingestion
Aquatic Hazard, Acute	3	H402	Harmful to aquatic life
Flammable Liquids	3	H226	Flammable liquid and vapor

**Precautionary Statements:**

<b>Prevention:</b>	P201	Obtain special instruction before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P281	Use personal protective equipment as required.
	P271	Use only outdoors or in a well-ventilated area.
	P260	Do not breathe the mist/vapors/spray.
	P264	Wash exposed area with plenty of water and soap thoroughly after handling.
	P273	Avoid release to the environment.
	P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
	P233	Keep container tightly closed.
	P240	Ground/bond container and receiving equipment.
	P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
	P242	Use only non-sparking tools.
	P243	Take precautionary measures against static discharge.
<b>Response:</b>	P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P332 + P313	If skin irritation occurs: Get medical advice/ attention.
	P363	Wash contaminated clothing before reuse.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337 + P313	If eye irritation persists: Get medical advice/attention.
	P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
	P308 + P313	IF exposed or concerned: Get medical advice/attention.

	P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:	P403 + P233 + P235 P405	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.
Disposal:	P501	Dispose of contents/container to hazardous or special waste collection point in accordance with local/regional/national/international regulations.
<b>Hazards not otherwise classified:</b>		Not known.

**Supplemental label elements:**

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR PROFESSIONAL USE ONLY. Do not transfer contents to other container for storage.

**SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS**

Components	CAS #	EC #	Concentration, %
Confidential Component 1	Trade Secret	Trade Secret	20 – 40
Xylene	1330-20-7	215-535-7	10 – 20
2-Methoxy-1-methylethyl acetate (PMA)	108-65-6	203-603-9	10 – 20

**SECTION 4 – FIRST-AID MEASURES**
**Description of First Aid measures:**

<b>Inhalation:</b>	Remove exposed person to fresh air immediately and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed.
<b>Skin:</b>	Wash material off of the skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes immediately and wash them before reuse. Get medical advice/attention if irritation persists.
<b>Eye:</b>	Immediately rinse with water for several minutes, especially under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Get medical advice/attention if eye irritation persists.
<b>Ingestion:</b>	Remove exposed person to fresh air and keep at rest in a position comfortable for breathing. Remove dentures if any. If conscious, rinse mouth with water and then give plenty of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Do not induce vomiting unless directed to do so by medical personnel. If unconscious, place in recovery position and maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Get medical attention immediately.

**Most important symptoms/effects, acute and delayed:** See Section 11 for more details.

**General advice for First Aid responders:** Show this SDS to physician.

**Note to physician:** Specific antidotes or neutralizers do not exist. Treatment should be supportive and based on the judgment of the physician in response to the reaction of the patient. Recommended medical monitoring for at least 48 hours. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**SECTION 5 – FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:** Those recommended for Class B fuels: Alcohol-resistant foam, dry chemical or carbon dioxide fire extinguishers.

**Unsuitable extinguishing media:** Direct water stream may cause frothing, splattering of burning material and spreading of fire.

**Specific hazards arising from the chemical:** Flammable Liquid, Category 3 per GHS. If heated above its flash point, product will release flammable vapors which can burn in the open or be explosive in confined spaces if exposed to ignition source. Vapors may travel considerable distance to a source of ignition and flash back. Mists or sprays may be flammable below oils normal flash point. Fire in vicinity poses risk of pressure build-up and rupture. Containers at risk from fire should be cooled with water and, if possible, removed from the danger area. Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. If released, product may float and ignite on surface of water.

**Released: June 28, 2016**

Component	CAS #:	Flash Point:	GHS	OSHA 29 CFR 1910.106
Confidential Component 1	Trade Secret	58°C (136°F)	Flammable Liquid, Category 3	Combustible Liquid, Class II
Xylenes	1330-20-7	25°C (77°F)	Flammable Liquid, Category 3	Flammable Liquid, Class IC
2-Methoxy-1-methylethyl acetate (PMA)	108-65-6	46°C (114°F)	Flammable Liquid, Category 3	Combustible Liquid, Class II

Hazardous combustion products: carbon dioxide, carbon monoxide, hydrogen cyanide, lower molecular weight organic molecules.

**Special Protective Equipment and Precautions for fire-fighters:** Wear NIOSH or OSHA approved self-contained breathing apparatus in positive pressure mode with full face piece and full protective gear. Isolate the scene by removing all persons from the incident area. Prevent static discharge. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. No action should be taken involving any personal risk or without suitable training. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Keep unnecessary personnel away. Ensure adequate ventilation/exhaust extraction. Avoid breathing vapors or mist during clean up. Use protective equipment as described in Section 8. Do not touch or walk through spilled material; spilled material may cause a slipping hazard.

**Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Inform the relevant authorities if the product has caused environmental pollution. Water polluting material. May be harmful to the environment if released in large quantities. See Section 12 for more details.

**Methods and materials for containment and cleaning up:** Product is flammable. Eliminate all sources of ignition. Use clean non-sparking tools to collect absorbed material. All equipment used when handling this product must be grounded. A vapor suppressing foam may be used to reduce vapors. Water spray may reduce vapor; but may not prevent ignition in closed spaces.

Remove mechanically; cover the remainder with non-combustible absorbent material (e.g. sand, earth, vermiculite or diatomaceous earth). Following absorption, transfer into properly labeled chemical waste containers. If necessary, repeat application of absorbent material until all liquid has been removed from the surface. Remove residual with warm, soapy water. After cleaning, remove waste container and keep in a well-ventilated area. Properly dispose of the waste material and any contaminated equipment (i.e., broom or brush) in accordance with existing federal, state and local regulations.

For major spills: Stop leak if without risk. Approach release from upwind. Remove all ignition sources. Use spark-proof tools and explosion-proof equipment. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or contain and collect with an absorbent material as described in the previous paragraph.

For minor spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly with soap and water to remove residual contamination.

Never return spills to original containers for re-use.

Residues from spill cleanup may continue to be regulated under provisions of RCRA and require storage and disposal as hazardous waste. For major spills, see Section 1 for the Emergency contact; for further disposal measures, see Section 13.

### SECTION 7 – HANDLING AND STORAGE

**Precautions for safe handling:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid exposure during pregnancy.

Product is flammable. Check atmosphere for explosiveness and oxygen deficiencies. Eliminate all sources of ignition. Ground and bond containers and equipment before transferring to avoid static sparks. All equipment must conform to applicable electrical code. Use clean non-sparking tools. Carefully vent any internal pressure before removing closure. Handle empty containers with care; vapor/residue may be flammable.

Avoid exposure to heat and air. Protect chemical from atmospheric moisture. Do not reseal if contamination is suspected. Use adequate ventilation to keep airborne levels below the exposure limits. Do not inhale vapors and mists. Wear respiratory protection if material is heated, mixed, sprayed or used in a confined space. Avoid contact with skin and eyes. Wear appropriate eye and skin protection. Wash hands thoroughly after handling. Hands and/or face should be washed before eating, drinking and smoking and at the end of the shift. Remove contaminated clothing and protective equipment before entering eating areas.

**Conditions for safe storage, including any incompatibilities:** Store in original or approved alternative container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Protect it against physical damage and moisture. Normal temperature and pressures do not affect the material. Keep liquid away from heat, sparks and flame. Do not cut, drill, grind, weld or perform similar operations on or near containers. Ground and bond containers and equipment. Use appropriate containment to avoid environmental contamination.

**Storage stability:** Stable under normal conditions.

**Storage temperature:** 40 - 77°F (5 - 25°C)

Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200. Employees and consumers should be warned of health risks associated with product use. See Section 8 for additional information on hygiene measures.

### SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control Parameters/Occupational exposure limit values:** Not available for mixture. Results for components are listed in Section 15.

**Appropriate engineering controls:** Use only with adequate ventilation. Provide process enclosures, local exhaust ventilation or other engineering controls to maintain recommended PEL. All equipment must conform to applicable electrical code. Use clean non-sparking tools.

**Personal protective equipment:**

**Eye/face protection:**

When directly handling liquid product, eye protection is required. Examples of eye protection include safety glasses and goggles. Contact lenses should not be worn when working with chemicals.

**Skin/body protection:**

Use solvent-resistant protective gloves. Body should be covered with appropriate clothing (apron, arm covers or full body suit) depending on the task being performed and the risks involved. Appropriate footwear should be also selected based on the task being performed and the risks involved.

**Respiratory protection:**

Use local or general ventilation to control exposures below applicable exposure limits. When ventilation is inadequate, use either an atmosphere supplying respirator or NIOSH or OSHA approved air-purifying respirator that is recommended for use in solvent-containing areas. Respirator must be properly fitted and its selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Additional Protective Measures:** Educate and train employees in safe handling of this product. Follow all label instructions. As a general hygiene practice, wash hands and face after use. Clean water should always be readily available for emergency skin and eye washing. Emergency eyewash fountains and safety shower are recommended in close proximity as a matter of good work practice.

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Liquid
<b>Odor:</b>	Aromatic
<b>Odor threshold:</b>	Not available
<b>pH:</b>	Not available
<b>Melting point/ freezing point:</b>	<0°C (<32°F)
<b>Initial boiling point and boiling range:</b>	139-165°C (282-329°F); CC 1: 166°C (331°F); Xylene: 137-140°C (279-284°F); PMA: 145°C (293°F)
<b>Flash point:</b>	26°C (79°F); CC 1: 58°C (136°F); Xylene: 25°C (77°F) (closed cup); PMA: 45.5°C (114°F) (closed cup)
<b>Evaporation rate:</b>	Slower than n-Butyl Acetate
<b>Flammability (solid, gas):</b>	Not available
<b>Upper/ lower flammability or explosive limits:</b>	Not available for mixture; CC 1: 9.8 %(V)/1.05 %(V); Xylene: 7 %(V)/ 1.1 %(V); PMA: 13.1 %(V)/ 1.3 %(V)
<b>Vapor pressure:</b>	Not available for mixture; CC 1: 2.30hPa (1.73mmHg) at 20°C (68°F); Xylene: 24hPa (18mmHg) at 37.7°C (100°F); PMA: 3.59hPa (2.69mmHg) at 20°C (OECD Test Guideline 104)
<b>Vapor density:</b>	Not available for mixture; CC 1: 5.03; Xylene: 3.67 (Air = 1.0)
<b>Relative density:</b>	Not available
<b>Solubility (water):</b>	Not available
<b>Partition coefficient n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available for mixture; CC 1: 377°C (711°F) at 1,013hPa; PMA: 333°C (631°F) at 1,013hPa
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	Not available
<b>Weight/Gallon:</b>	8.26
<b>% Volatile by Volume / V.O.C. as supplied:</b>	69.91% / 5.39; 641 g/L

CC 1=Confidential Component 1

### SECTION 10 – STABILITY AND REACTIVITY

**Reactivity:** Product will not undergo hazardous polymerization. Corrosive effects to metal are not anticipated. Based on its structural properties the product is not classified as oxidizing. Does not form flammable gases in the presence of water. Vapors may form explosive mixture with air.

**Chemical stability:** Stable under recommended storage conditions. Product is hygroscopic; contamination with moisture will negatively affect product performance.

**Conditions to avoid:** Unintentional contact with moisture, excessive heat (temperatures exciding the flash point), open flame and sparks, mist formation.

**Incompatible materials:** Strong oxidizing and reducing agents. Product will attack some forms of plastic.

**Hazardous decomposition products:** Depend upon temperature, air supply and presence of other materials. Can include, but are not limited to carbon dioxide, carbon monoxide, hydrogen cyanide, lower molecular weight organic molecules.

<b>SECTION 11 – TOXICOLOGICAL INFORMATION</b>
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**Likely Routes of Exposure:** Skin and Eye Contact, Inhalation and Ingestion.

**Symptoms of exposure:**

**Acute toxicity:**

**Oral:** May be harmful if swallowed. Adverse symptoms may include abdominal pain, nausea and diarrhea. May cause central nervous system depression characterized by excitement, headache, dizziness, drowsiness, nausea and difficulties with breathing. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

**Dermal:** May cause dryness and redness.

**Inhalation:** May be harmful if inhaled. Adverse symptoms are similar to those when swallowed.

**Skin corrosion / irritation:**

Prolonged and repeated contact with skin may cause irritation. Adverse symptoms may include redness, defatting, dryness, cracking and/or blistering.

**Serious eye damage / eye irritation:**

Liquid, aerosols or vapors cause serious eye irritation. Adverse symptoms may include pain, tearing, redness, itching. If left untreated, may result in corneal damage and injury is slow to heal.

**Specific target organ toxicity, single exposure:**

Product contains components that may cause respiratory irritation and drowsiness and dizziness after single exposure:

- Xylenes, CAS #: 1330-20-7: May cause respiratory irritation. May cause drowsiness and dizziness.

**Aspiration hazard:**

Not an aspiration hazard.

**Chronic toxicity:**

**Respiratory and Skin Sensitizer:**

Based on available information, this material is not a skin or respiratory sensitizer.

**Germ cell mutagenicity:**

Based on available information, risk to humans is not expected from exposure to this product.

**Carcinogenicity:**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

- Xylenes, CAS #: 1330-20-7: IARC: Group 3 (Not Classifiable as to its Carcinogenicity to Humans)

**Reproductive toxicity:**

This product contains component suspected to be reproductive hazard.

- Xylenes, CAS #: 1330-20-7

**Specific target organ toxicity, repeated exposure:**

May cause damage to central nervous system/brain, liver, kidney, blood, respiratory system/lungs and skin through prolonged or repeated exposure.

Chronic exposure to organic solvents by inhalation and skin absorption may lead to various neurotoxic effects including permanent brain and nervous system damage. Symptoms include loss of memory, intellectual ability and coordination.

Repeated or prolonged skin contact can result in dry, defatted and cracked skin causing increased susceptibility to infection.

Irritation may develop to dermatitis.

**Medical conditions aggravated by overexposure:**

Central nervous system/brain, liver, kidney, blood, respiratory system/lungs, skin disorders if product is handled without adequate protection.

**Toxicity test results:** Not available for mixture. Results for components:

Components	Test Results
Confidential Component 1, CAS #: Trade Secret	<p><u>Acute Toxicity</u>                      Oral LD50 (Rat, male): &gt;5,000 mg/kg; (Rat, female): ~4,000 mg/kg (OECD Test Guideline 401)                      Dermal LD50 (Rabbit, male): ~4,000 mg/kg; (Rabbit, female): ~4,500 mg/kg (OECD Test Guideline 402)                      Inhalation LC50 (Rat, male), 6hrs: &gt;1,000 ppm (highest concentration tested) (OECD Test Guideline 403)                      Skin corrosion/irritation (Rabbit), 4hrs: slightly irritating (OECD Test Guideline 404)                      Serious eye damage/eye irritation (Rabbit), 24hrs: Slightly irritating (OECD Test Guideline 405)                      STOT, SE: No data available.                      Aspiration hazard: No.</p> <p><u>Chronic toxicity</u>                      Sensitization, skin and respiratory: Not skin sensitizer (Guinea pig maximization test) (OECD Test Guideline 406)                      Germ cell mutagenicity: In vitro: bacterial; chromosome aberration; mammalian: negative. In vivo: No data available                      Carcinogenicity: No data available.                      STOT, RE: Oral (Rat, male &amp; female), 28days: NOAEL: 1,000 mg/kg (OECD Test Guideline 407) - Liver Irregularities                      Inhalation (Rat), 90days: NOAEL: 500 ppm - Nausea, Headache, Vomiting, Central nervous system depression, Dizziness</p>
Xylene, CAS #: 1330-20-7	<p>Can affect by inhalation and skin absorption.</p> <p><u>Acute Toxicity</u>                      Oral LD50 (Rat): 3,523 mg/kg</p>

	<p>Dermal LD50 (Rabbit): 12,126 mg/kg          Inhalation LC50 (Rat, gas), 4hrs: 5,000 ppm; Can irritate the nose and throat causing coughing and wheezing.          Skin corrosion/irritation (Rabbit), 24hrs: irritating.          Serious eye damage/eye irritation (Rabbit): Moderate eye irritation.          STOT, SE: May cause respiratory irritation. May cause drowsiness and dizziness.          Aspiration hazard: May be fatal if swallowed and enters airways.  <u>Chronic toxicity</u>          Sensitization, skin and respiratory: No data available.          Germ cell mutagenicity: No data available.          Carcinogenicity: IARC: Group 3: Not classifiable as to its carcinogenicity to humans.          Reproductive toxicity: The available animal information is insufficient to connect xylene with any reproductive effects. Xylene has produced fetotoxic effects like delayed ossification and behavioral effects in animals, in the absence of maternal toxicity. Xylene inhaled by a woman can reach a developing fetus and can contaminate her breast milk. It is recommended that pregnant and nursing women minimize their exposure to xylene.          STOT, RE: Prolonged inhalation may result in headache, dizziness, nausea, loss of concentration, memory and muscle coordination, tremors, irritability and blurred vision, irritation of mucous membrane pneumonitis and pulmonary edema. May cause mild changes in liver function, kidney impairment, hyperplasia and blood abnormalities. Effects on skin: defatting and dermatitis. Odor is not an adequate warning for overexposure to xylene.          To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</p>
2-Methoxy-1-methylethyl acetate (PMA), CAS #: 108-65-6	<p><u>Acute Toxicity</u>          Oral LD50 (Rat): &gt;5,000 mg/kg          Dermal LD50 (Rat): &gt;5,000 mg/kg (OECD Test Guideline 402)          Inhalation LC50: 10,800 mg/m<sup>3</sup>          Skin corrosion/irritation (Rabbit): Not irritating (OECD Test Guideline 404)          Serious eye damage/eye irritation (Rabbit): slightly irritating.          STOT, SE: No data available.          Aspiration hazard: No.  <u>Chronic toxicity</u>          Sensitization, skin and respiratory: Not sensitizer (Guinea pig maximization test) (OECD Test Guideline 406)          Germ cell mutagenicity: Reverse mutation assay (S. typhimurium): negative. Risk to humans is not expected from exposure to this product.          Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, NTP, OSHA, ACGIH.          Reproductive toxicity: Oral (Rat) NOAEL: 1,000 mg/kg bw/day (OECD TG 422) and Inhalation (Rat): NOAEL: 4,000 ppm (22,464 mg/m<sup>3</sup>): no significant adverse effects on reproductive parameters and no evidence of malformations at any doses.          Two bacterial mutation tests, unscheduled DNA synthesis in rat hepatocytes and chromosomal aberration test in vitro: negative results.          STOT, RE: Stomach Irregularities - Based on Human Evidence; can be absorbed through the skin.          Inhalation (Rats), 2 weeks/5 days a week/6 hrs a day: at doses of 300, 1,000 or 3,000 ppm (1.62, 5.39 or 16.18 mg/L): NOAEL: 300 ppm (1.62 mg/L) for males and at 1,000 ppm (5.39 mg/L) for females, kidneys and nasal cavities affected at 3,000 ppm.          Inhalation (mice) 2 weeks/5 days a week/6 hrs a day: at 300 ppm effect on the nasal cavity.</p>

**SECTION 12 – ECOLOGICAL INFORMATION**

**Ecotoxicity:** Classified as acute environmental hazard.

**Persistence and degradability:** Readily biodegradable by OECD criteria.

**Bioaccumulative potential:** Not known.

**Mobility in soil:** Not known.

**Other adverse effects:** Not known.

**Ecotoxicity test results:** Not available for the mixture. Results for components, where available:

Components	Test Results
Confidential Component 1, CAS #: Trade Secret	<p><u>Acute toxicity:</u> Harmful to aquatic life.          Fish (fathead minnow), 96hrs: LC50: 10-100 mg/L (OECD Test Guideline 203, static test)          Aquatic invertebrates (Daphnia magna), 48hrs: EC50: 500-1,000 mg/L (OECD Test Guideline 202, Immobilization test)          Aquatic plants (green algae), 72hrs: EC50: &gt;100 mg/L (OECD Test Guideline 201, Growth inhibition)          Microorganisms (bacteria), 16hrs: IC50: &gt;5,000 mg/L (Growth inhibition)  <u>Ecological Data</u>          Biodegradation, 28 days: 100% - Readily biodegradable (CO<sub>2</sub> Evolution test)          Bioaccumulation: No data available          Mobility in soil: No data available          Results of PBT and vPvB assessment: Log Kow: 1.35; Log Koc: 1.52 (QSAR Model)          An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.</p>
Xylene, CAS #: 1330-20-7	<p><u>Acute toxicity:</u> Toxic to aquatic life.          Fish: LC50 (rainbow trout), 96hrs: 3.3 mg/L          Aquatic invertebrates: EC50 (Daphnia magna), 24hrs: 75.49 mg/L          Aquatic plants: EC50 (green algae), 14days: 72 mg/L (Growth inhibition)  <u>Chronic toxicity:</u> No sufficient data available for classification.  <u>Ecological Data</u>          Biodegradation: Readily biodegradable. In air, xylenes degrade by reacting with photochemically produced hydroxyl radicals. In soil it will volatilize and leach into groundwater. Little bioconcentration is expected. Atmospheric fate: According to a model of gas/particle partitioning of semivolatile organic compounds in the atmosphere, xylene, which has an experimental vapor pressure of 7.99 mm Hg at 25 deg C, will exist solely as a vapor in the ambient atmosphere. Vapor-phase xylene is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the atmospheric lifetime of xylene is about 14-26 hours. Ambient levels of xylene are detected in the atmosphere due to large emissions of this compound.          Bioaccumulation: Not significant; BCF values: freshwater fish: 1-15 and saltwater fish and invertebrates: 1-24 in, and uptake and depuration both occurring rapidly.          Results of PBT and vPvB assessment: No data available</p>
2-Methoxy-1-methylethyl acetate (PMA),	<p><u>Acute toxicity</u>          Fish: LC50 (rainbow trout), 96hrs: 100-180 mg/L (OECD Test Guideline 203)</p>

CAS #: 108-65-6	Aquatic invertebrates: EC50 (Daphnia magna), 48hrs: >500 mg/L Aquatic plants: EC50 (green algae), 72hrs: >1,000 mg/L <u>Ecological Data</u> Biodegradation, 28days: 83% - Readily biodegradable (OECD Test Guideline 301F) (BOD): 0.36 mg/l; (COD): 1.74 mg/g Bioaccumulation: No data available Results of PBT and vPvB assessment: No data available
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**SECTION 13 – DISPOSAL CONSIDERATIONS**

**Product Disposal:** The generation of waste should be avoided or minimized wherever possible. If product becomes a waste, it meets criteria of hazardous waste as defined in 40 CFR 261, Subpart C and D. Do not discharge into sewer system. Spill cleanup residues are subject to RCRA storage and disposal requirements.




Dispose waste in compliance with local, state and federal regulations via licensed waste disposal contractor. Preferred disposal method is burning in a chemical incinerator equipped with an afterburner and scrubber; extra care should be taken in igniting as this material is highly flammable.

**RCRA Code:** D001 - Unlisted hazardous wastes characteristic of ignitability, RQ: 100 lbs

**Container disposal:** Even after emptying, container may retain residues. Do not heat or cut empty container with electric or gas torch since highly toxic vapors and gases can be formed. Empty containers should be completely drained and safely stored until appropriately reconditioned or disposed through licensed contractor in accordance with government regulations.

This material and its container must be disposed of in a safe way.

**SECTION 14 – TRANSPORT INFORMATION**

	Land transport, U.S. DOT	Sea transport, IMDG:	Air transport, IATA/ICAO:
<b>UN number:</b>	UN 1263	UN 1263	UN 1263
<b>UN proper shipping name:</b>	Paint	Paint	Paint
<b>Transport hazard class(es):</b>	3	3	3
<b>Packing group:</b>	III	III	III
<b>Hazard Label:</b>			
<b>Environmental Hazard:</b>	No	No	No
<b>Additional info:</b>	ERG: 128	F-E, S-E	
<b>Special precautions:</b>	Shipping descriptions are provided for informational purposes and do not consider container sizes and packaging. The presence of a shipping description for a particular mode of transport does not indicate that the product is packaged suitably for that mode of transport. Certain exceptions may be applied as outlined in 49 CFR 173.150. Special Provisions: B1, B52, IB3, T2, TP1, TP29 Exceptions: 150; Non bulk: 173 / Bulk: 242; Passenger aircraft rail: 60L / Cargo aircraft only: 220L / Location: A		

All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

**SECTION 15 – REGULATORY INFORMATION**
**U.S. Regulations:**

**OSHA HCS:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29CFR 1910.1200.

**TSCA Regulations:**

All components of this product are listed or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

**EPCRA Section 302 (40 CFR Part 355)** (Emergency Response Planning, Extremely Hazardous Substance):

No components are subject to the reporting.

**EPCRA Section 304 (40 CFR Part 355)** (Emergency Release Notification Requirements):

No components are subject to the reporting.

**EPCRA Sections 311 & 312** (Hazardous Chemical Inventory Reporting, Hazard Categories):

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**EPCRA Section 313 (40 CFR Part 372)** (Toxic Chemical Release Inventory Reporting):

The following component of this product is present above De Minimis level and therefore requires reporting:

- Xylenes, CAS #: 1330-20-7: in product: 10-20%; De Minimis: 1.0%

**CERCLA Sections 102-103 (40 CFR Part 302)** (Hazardous Substances Release Notification):

The following components are subject to the reporting if a criterion of reportable quantity is fulfilled:

- Xylenes, CAS #: 1330-20-7: RQ: 100 lbs

**Clean Air Act:**

- Ozone Depleting Substances (ODS): This product does not contain and is not manufactured with ozone depleting substances.
- Hazardous Air Pollutants, OSHA, Section 112(b), Table Z-1: The following component is listed:

**Released: June 28, 2016**

Substance	Regulatory Limits				Recommended Limits	
	OSHA PEL		Cal/OSHA PEL	NIOSH REL	ACGIH® 2015 TLV®	
	ppm	mg/m <sup>3</sup>	8-hour TWA, mg/m <sup>3</sup>	Up to 10-hour TWA, mg/m <sup>3</sup>	8-hour TWA, mg/m <sup>3</sup>	
Xylenes, CAS #: 1330-20-7	100	435	100 ppm; (ST) 150 ppm; (C) 300ppm	100 ppm; (ST) 150 ppm;	100 ppm; (ST) 150 ppm;	

ppm=parts per million; ST-(STEL); C-Ceiling;

**Occupational Exposure Limits:**

 2-Methoxy-1-methylethyl acetate, CAS #: 108-65-6 TWA: 50 ppm USA. Workplace Environmental Exposure Levels (WEEL)  
 Confidential Component 1, CAS #: Trade Secret TWA: 50 ppm; STEL: 100 ppm

**Clean Water Act:**

- Section 307(a)(1) (Toxic pollutants): No components are listed.
- Section 311(b)(2): Table 116.4A (Hazardous chemicals) / Table 117.3 (RQ):
  - Xylenes, CAS #: 1330-20-7: RQ: 100 lbs

**NFPA rating:** Health: 2 Fire: 3 Reactivity: 0 Special: 0

**HMIS rating:** Health: 2\* Flammability: 3 Physical hazard: 0

**RCRA Code:** D001 - Unlisted hazardous wastes characteristic of ignitability, RQ: 100 lbs

**State Regulations:**

California Prop. 65 Components:

This product does not contain components known to State of California to cause cancer, birth defects, or any other reproductive harm.

Instruction: for regulatory information on components of this mixture, check the appropriate state websites.

**International Regulations/Inventories:**

Canada: All components of this product are listed or are exempt from the DSL.

WHMIS Classification (Controlled Products Regulations): Class D2B: Material causing other toxic effects (Toxic)

WHMIS Label Information: Class B2: Flammable Liquid


**SECTION 16 – OTHER INFORMATION**
**LEGEND**

GHS	Globally Harmonized System
CAS	Chemical Abstracts Services
EC	European Community
EPA	Environmental Protection Agency
OSHA	Occupational Safety and Health Administration
ACGIH	American Conference of Governmental Industrial Hygienists
NIOSH	National Institute of Occupational Safety and Health
PEL	Permissible Exposure Limits
TLV	Threshold Limit Value
REL	Recommended Exposure Limit
TWA	Time-Weighted Average
STEL	Short-term exposure limit
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
COD / BOD	Chemical Oxygen Demand / Biological Oxygen Demand
STOT, SE	Specific Target Organ Toxicity following Single Exposure
STOT, RE	Specific Target Organ Toxicity following Repeated Exposure
DOT	Department of Transportation
IMDG	International maritime dangerous goods code
IATA, ICAO	International Air Transport Association, International Civil Aviation Organization
TSCA	Toxic Substances Control Act
EPCRA	Emergency Planning and Community Right-to-Know Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
RQ	Reportable Quantity
EHS	Extremely Hazardous Substances
DSL	Domestic Substance List
WHMIS	Workplace Hazardous Materials Information System

**Latest revision date:** June 28, 2016

**Date of the previous revision:** November 30, 2015 – Preparation of SDS in accordance to the GHS requirements

**Disclaimer:** The data set forth in this sheet are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. Rhino Linings Corporation makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereof.